

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) An apparatus for delivering a predetermined amount of a fluid for biological or chemical processing and/or analysis, consisting of:

a tube;

a piston plunger positioned to slide inside of said tube for dispensing said predetermined amount of a fluid for biological or chemical processing and/or analysis, said piston plunger responsive to a pneumatic force;

a mechanical device that biases said piston plunger in opposition to said pneumatic force;

a connector operatively connected to said tube for transferring said predetermined amount of a fluid for biological or chemical processing and/or analysis;

a chamber directly connected to said tube and open to said piston plunger for directing said pneumatic force directly to said piston plunger,

an actuator operatively connected to said chamber, said tube and piston plunger for providing said pneumatic force to said piston plunger; and

valving in said actuator operatively connected to said chamber and said tube and operatively connected to said piston plunger, said valving transmitting said pneumatic force to said chamber, said tube and piston plunger.

2. (Previously Presented) The apparatus of claim 1 wherein said mechanical device is a spring that biases said piston plunger in opposition to said pneumatic force.

3. (Cancelled)

4. (Cancelled)

5. (Previously Presented) A dispensing system for delivering a predetermined amount of a fluid for biological or chemical processing and/or analysis, consisting of:

dispensing means for moving said predetermined amount of a fluid for biological or chemical processing and/or analysis, said dispensing means operated by a pneumatic force;

connection means for delivering said predetermined amount of a fluid for biological or chemical processing and/or analysis, said connection means operatively connected to said dispensing means; and

actuator means for providing said pneumatic force to said dispensing means, said actuator means operatively connected to said dispensing means;

chamber means directly connected to said dispensing means and open to said actuator means for directing said pneumatic force to said actuator means, and

valving means in said actuator means for transmitting said pneumatic force to said chamber means and said dispensing means, said valving means operatively connected to said chamber means and said dispensing means,

wherein said dispensing means is a tube with a piston plunger inside of said tube that slides inside said tube and moves said predetermined amount of a fluid for biological or chemical processing and/or analysis through said connection means, and a biasing spring that biases said piston plunger in opposition to said pneumatic force.

6. (Cancelled)

7. (Cancelled)